

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LYNDON B. JOHNSON SPACE CENTER**

**JUSTIFICATION FOR OTHER THAN FULL AND OPEN COMPETITION
PURSUANT TO 10 U.S.C. 2304(c)(1) and
FEDERAL ACQUISITION REGULATION 6.302-1**

1. This document is a justification for other than full and open competition prepared by the NASA, Johnson Space Center.

2. The nature and/or description of the action being approved:

Parts selection for the iLIDS (International Low Impact Docking System) project is governed by JSC-63866, "Project Technical Requirements Specification for the International Low Impact Docking System (iLIDS) Government Furnished Equipment (GFE)" which states that all iLIDS electrical, electronic, and electromechanical parts shall be Grade 1 parts, due to LIDS being a Criticality 1R system. In the case of hybrid microcircuits, meeting these requirements means being qualified to MIL-PRF-38534 Class K with radiation hardness assurance, if available. The Department of Defense (DOD) qualifies manufacturers and their products according to this specification. Only hybrid microcircuits manufacturers who are on the DOD's Qualified Manufacturers List (QML) can supply these items. In order to produce hardware that meets our flight requirements, we must use the same high level of component in our prototypes, for purposes of testing, data analysis, and evaluation.

3. Description of the supplies or services required (including the estimated value):

I recommend that NASA, Lyndon B. Johnson Space Center negotiate with Aeroflex Plainview, Inc. only for **Hybrid Voltage Regulator, Dual, Positive and Negative, part number VRG8602-7, and 16 Bit Resolver/Digital Converter, part number RDC5028-3-1-7**. The total estimated cost of this effort is \$164,678.00 and the estimated period of performance or lead-time for delivery is 8 and 4 weeks ARO respectively.


4. Statutory authority permitting other than full and open competition:

The statutory authority permitting other than full and open competition for this action falls within Federal Acquisition Regulation (FAR) 6.302-1 (a)(2)(iii)(B), "Only One Responsible Source and No Other Supplies or Services Will Satisfy Agency Requirements," pursuant to 10 U.S.C. 2304(d)(1)(B), services may be deemed to be available from only one source for the continued provision of highly-specialized services when it is likely that award to any other source would result in unacceptable delays in fulfilling the Agency's requirements.

5. A demonstration that the proposed contractor's unique qualifications or the nature of the acquisition requires use of the authority cited:

These are commercial grade parts used for design and development as a cost savings measure. The space grade components, to be used in the final assembly, will be part numbers **VRG8602-201-1S** and **RDC5028-301-1S**. Aeroflex is the only approved master source of these components on the DOD's Qualified Manufacturers List, QML-38534.

6. Description of the efforts made to ensure that offers are solicited from as many potential sources as practicable:

 7/1/11

Initial Date

No other offers can be solicited as **Aeroflex** is the only approved master source of these components on the DOD's Qualified Manufacturers List, QML-38534.

7. Determination by the Contracting Officer that the anticipated cost to the Government will be fair and reasonable:

Previously under Purchase Order, NNJ09HD00P, each hybrid voltage regulator was procured in the amount of \$2,114. The current proposal provides prices lower than what was proposed in 2009.

Also, previously under Purchase Order, NNJ09HA85P, similar items for 16-Bit Resolver-to-Digital Converters were procured. Each digital converter was for \$3,000. The current proposed price for each digital converter is lower than that was proposed in 2009.

Therefore, the proposed price for part numbers, VRG8602-201-1S and RDC5028-301-1S, are found fair and reasonable.

8. Description of the market survey conducted and the results, or a statement of the reasons a market survey was not conducted:

Aeroflex is the only approved master source of these components on the DOD's Qualified Manufacturers List, QML-38534.

9. Other facts supporting the use of other than full and open competition, such as:

Any course of action other than awarding to **Aeroflex**, would not fulfill the Agency's requirements, and therefore, is not in the best interest to the Government.

10. A listing of sources, if any, that expressed in writing an interest in the acquisition:

No sources expressed an interest in writing.


11. A statement of the actions, if any, the Agency may take to remove or overcome any barriers to competition before any subsequent acquisition for the supplies or services required:

This Agency will continue to remove or overcome any barriers to competition before any subsequent acquisition for these services are required. To do so, the procurement offices will coordinate with the COTR to ensure any needs for publicizing formal RFIs and sources sought synopses are met. These postings will enable the COTR and technical community to gather crucial information regarding the options and available sources for the future testing needs of the Agency. The technical offices and COTR will continue to monitor industry capabilities by attending related seminars and industry forums. The COTR will also continue to review relevant technical journals, Government and commercial databases, and Internet resources for relevant information.

 8/7/11
Initial Date

Technical Officer:

I certify that the supporting data presented in this justification are accurate and complete.




Technical Monitor

9/9/11
(Date)

Contracting Officer:

I certify that this justification is accurate and complete to the best of my knowledge and belief.



Contracting Officer

9/9/11
(Date)

Initial Date